	ı	1. DATE SUBMITTED 27 July 2000 Received 8/3/00						
This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B as possible. WSH will complete Part C (implementation details). If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: NWSRC@noaa.gov).								
2. ORIGINATOR OFF	FICE 3. SUBM Name: \	MITTING AUTHORITY Ward Seguin Code: W/APO1		CHNICAL INDIVIDUAL	5. ORIGINATOR TRACKING NUMBER P431_FSL_A100080			
6. SYSTEMS AFFECT	TED BY CHANGE	DATA PRODUCTS	(Complete Data Produ	ucts Supplement) ER (specify)	7. WSH TRACKING NUMBER NWS 618 8/14/00			
8. TITLE OF CHANGE The AWIPS Text Store Process performance improvement - \alpha testing								
9. TYPE OF CHANGE	<u> </u>		1	10. SITES AFFECTED (Att	ach Part B, Page 2, if needed)			
☐ HARDWARE	☐X SOFTW	VARE DOCUM	IENTATION ONLY	NMT, EAX.				
11. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM (Include problem report reference numbers.) Enhance performance of the AWIPS Text Store Processes. Problems to be corrected include: watches and warning sitting in a long queue with other products, slow triggers, Related DR. 5988.								
12. KNOWN OR PROPOSED SOLUTION (Include source and description of new features or data products.) The solution implements four improvements, detailed in Attachment A. These include sending watches and warning through a parallel decoding path, improved handling of trigger products, larger StdDBDecoder timeout (5 min.), and additional logging of its performance parameters by the TextDBServer.								
13. ALTERNATE SOL	LUTIONS							
None.								
14. REQUIRED CHANGE DATE TBD		5. RATIONALE FOR REQUIRED CHANGE DATE (Include proposed priority, if known.) npact on sites's operational performance.						
		CC	CB/PMC/CMB DEG	CISION				
16. DECISION AUTH	IORITY LEVEL	☐ CCB LEVEL ONI	☐ CCB LEVEL ONLY ☐ FAST TRACK ☐ PMC or NWS CMB DECISION R		WS CMB DECISION REQUIRED			
17. CCB LEVEL DECI	ISION	☐ APPROVED		SIGNATURE				
		☐ RECOMMENI ☐ DISAPPROVE	D APPROVAL ED	DATE SIGNED				
FOR USE ONLY WHEN PMC or NWS CMB DECISION REQUIRED								
18. PMC OR NWS CMB DECISION		☐ APPROVED		SIGNATURE				
		□ DISAPPROVED		DATE SIGNED				

NWSRC Form 1001, 9/15/99

Part A - Page 1

1. ORIGINATOR TRACKING NUMBER **NWS CHANGE FORM** P431_FSL_A100080 PART B All RC/ECP submissions must also address the following information. Indicate if any areas are unknown or do not 2. WSH TRACKING NUMBER apply. State why information is unknown and when it will be available. Attach extra pages if necessary, referencing each applicable subject. NWS 618 FUNDING INFORMATION 3. SOURCE OF 4. TOTAL COST Estimate costs and indicate known sources of funding. (Include travel time, installation time, administrative **FUNDING** time, and software development time when applicable.) 5. DEVELOPMENT COSTS (Estimate development costs) AMOUNT Covered under O&M costs. 6. OPERATIONAL TEST AND EVALUATION COSTS (Estimate test and evaluation costs) **AMOUNT** N/A 7. PRODUCTION COSTS (Include acquisition, kit proofing, spares, delivery, and documentation costs) **AMOUNT** N/A 8. COMMUNICATIONS SERVICE/CIRCUITS COSTS (Include installation and recurring costs) AMOUNT **AMOUNT** 9. IMPLEMENTATION SUPPORT COSTS (Include travel, installation, and administrative costs) 9A. LIFE CYCLE SUPPORT COSTS (Less communications service/circuits) AMOUNT N/A SUPPORTING INFORMATION AND SCHEDULES Provide detailed information needed to implement the requested change. 10. DEVELOPMENT STATUS/SCHEDULE (Major milestones such as Start, Beta 11. PRODUCTION STATUS/SCHEDULE (Major milestones such as Test, and OT&E) Solicitation, Contract Start Date, Delivery Date, Kit Proofing, etc.) N/A 12. IMPLEMENTATION/RETROFIT SCHEDULE 13. FACILITY INFORMATION (Attach facility drawings/plans.) N/A 14. COMMUNICATIONS INSTALLED (Type required, who will order, and 15. COMMUNICATIONS SERVICE/CIRCUITS TO BE REMOVED associated hardware required; attach Part B, Page 2, if needed.) 16. REQUIRED CLEARANCES, WAIVERS, AND LICENSES (Include person or 17. COORDINATION OF CHANGE WITH OTHER CHANGES organization responsible for obtaining each) The patch is intended for R4.3.1 sites. 18. PHYSICAL ITEMS AND DOCUMENTS AFFECTED (Include part, serial, and 19. STAFF RESOURCE IMPACTS (Skills and workload impact on document numbers. Attach Part B, Page 2, if needed.) maintainers, operators, and managers.) 20. LOGISTICS IMPACTS (Include facilities, maintenance, training, and support 21. OPERATIONAL IMPACTS (Include continuity and back up needs equipment impacts.) and plans.) 22. ADDITIONAL MAJOR CHANGE ACTIVITIES (Include who will accomplish each of them and staff hours required.) See Attachment A.

NWS CHANGE FORM PART B - PHYSICAL ITEM AND DOCUMENT IMPACT MATRIX SUPPLEMENT This information is required prior to publication of Engineering Modification Notes and Software Release Notes. List physical items to be replaced and specify any changes in related documentation. (Submitters should complete this information, if known. WSH will assist.)					1. ORIGINATOR TRACKING NUMBER P431_FSL_A100080 2. WSH TRACKING NUMBER NWS 618					
										CIRCUIT TYPE, SOFTWARE VERSION,
REPLACE MODIFY	A. PART NUMBER OR CONFIGURATION	B. SERIAL NUMBER(S) OR COMMENTS	CONFIGURATION	1,1,2	A. IDENTIFIER	B. REV	A. IDENTIFIER	B. REV		
N/A				T						
-										
					†	<u> </u>				
	 			+	 					
	 			+	 					
	+			+	 	<u> </u>				
	 			+	 					
	 			+	 					
	 			+	 					
				+	 					
	 			+	 					
	†			+	<u> </u>					
				+						
	 									

NWSRC Form 1001, 9/15/99

Part B - Page 2 (Physical Item and Document Impact Matrix Supplement)

NWS CHANGE FORM PART C	1. ORIGINATOR TRACKING NUMBER P431_FSL_A100080						
WSH is responsible for Part C, but submitters may complete sections that would help cla		2. WSH TRACKING NUMBER					
requirement or the necessary implementation actions.			NWS 618				
			111113 010				
3. CCB COST EVALUATION							
NWS COST \$ FAA COST \$ DOD COST \$ OTHER AGENCY COST \$ TOTAL COST \$ (SPECIFY)							
4. IMPLEMENTATION DOCUMENTS REQUIRED							
☐ Engineering Modification Note ☐ Software Release Notes ☐ Other Document (Specify)							
ADDITIONAL IMPLEMENTATION INSTRUCTIONS (e.g., Implementation schedule, parts shipping instructions, equipment disposal procedures, additional documentation required, and status reporting instructions.) Include documentation, data input, notification vehicle, or specific action step required to verify completion of the implementation activity.							
5. IMPLEMENTATION ACTIVITY REQUIRED	6. REQUIRED COMPLETION DATE	7. RES PERSO OFFICE		8. DOCUMENT OR ACTION REQUIRED TO VERIFY COMPLETION			
1. The developer will place the software patch on the systems of the alpha sites.	1 August 2000	Thigper W/APO		N/A			

NWSRC Form 1001, 9/15/99

Part C - Page 1

Attachment A

Changes to the AWIPS Text Store Processes

The changes entail:

- 1. All W* products (WMO ID starting with a W) are sent to the new WarnDBDecoder process (on as2). This new process is dedicated to handling only warnings transmitted over the SBN and WAN. The WarnDBDecoder only processes W* products and will now route them "around" any queues that may have developed at the StdDBDecoder. Such queues should now have little or no impact on the receipt and storage of the W* products. Further, some efficiency improvements have also been made in the StdDBDecoder which will help to prevent queues from building there. As a result, you should see no entries in the StdDBDecoder log file for W* products.
- 2. The new TextDB_Server executable now handles the trigger products differently. The 4.3.1 version will
 - a) call a script to extract a product from the database, then
- b) call the script listed in fxatextTriggerAction.txt file associated with the product.

In this new version of TextDB_Server, the script extracting the product has been replaced in the actual TextDB_Server code, substantially reducing the delay of executing a trigger. The second script is still called (as in the 4.3.1 version).

- 3. The 4.3.1 StdDBDecoder would print a message that a storage failed writing data to the text data base when the TextDB_Server did not respond within 30 seconds. The product was still written into the database. The new StdDBDecoder has changed this timeout period to 5 minutes.
- 4. The TextDB_Server now logs the time it takes to store each product and the cumulative count of products stores, as an extension to the existing "NCF_STORE" log message. Some scripts have been developed to use this time for analysis.